

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/563/276
Source: IFWP
Date Processed by STIC: 1/13/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 01/13/2006

PATENT APPLICATION: US/10/563,276

TIME: 09:52:09

Input Set : A:\H-33271 SEQLIST.TXT

Output Set: N:\CRF4\01132006\J563276.raw

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4 <110> APPLICANT: dos Santos, Nuno Miguel Simoes
5      do Vale, Ana Maria Silva
6      Teixeira da Silva, Manuel Alexandre
7      da Silva Azevedo, Jorge Eduardo
8      Novartis AG
10 <120> TITLE OF INVENTION: Protein from Photobacterium damsela and
11      use thereof
13 <130> FILE REFERENCE: VA/H-33271
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/563,276
C--> 15 <141> CURRENT FILING DATE: 2006-01-04
15 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/008464
16 <151> PRIOR FILING DATE: 2004-07-28
18 <150> PRIOR APPLICATION NUMBER: GB0317733.4
19 <151> PRIOR FILING DATE: 2003-07-29
21 <160> NUMBER OF SEQ ID NOS: 6
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1542
27 <212> TYPE: DNA
28 <213> ORGANISM: Photobacterium damsela subsp. piscicida
30 <400> SEQUENCE: 1
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32 ccagatgcaa gcgatgacaa gtacgcagac tacgtggtac gtctagggtc ggaacatcca 120
33 ctaaaccata ctcagatcat tgaactttcc tctgcagtat cgagggtgt ccttcttagt 180
34 tacccaaata taatagaccg atacaccgct gcagcaactg aatatacggg gatcgatgct 240
35 ttattttcatt cgcctacctt tcgacatata gtttcttttg gtcttcataa tcagcaagag 300
36 aaccttggtc atattcgata tactaatgaa tatgaaatta acaataatcg cgaagatgag 360
37 ttctccttag tgagcgaggt aagctacgac gatataaaaa gctctaattg tcagcaagtt 420
38 cccctagttg cattttatga agcgcgagag gaccgcgcga cgggcacgcc tatcgtaaat 480
39 atgggtgtag ctccatgtct tttttctggc agatatagtt ggtggcaaga agcattaatc 540
40 catgaaattg ttcatacagt tacaggctct agtgatactc atgaagaaaa taagcaaggg 600
41 cctactgaaa ttttagctca aatggtcgcg gcggaacttc attgggcgat accaaccttt 660
42 aaaggatatt cagatcctgc gagggtcgaa gcgatacaag agcgcgattt ccactccttg 720
43 ttgaatatgt tccagagaca cggcagtgaa ttaggctttc tgttcaccag attagctacg 780
44 attgccaag gtaagaaagc ttcgcctgac ttcggcacc tgacctcttt ttgctcggaa 840
45 ggtattagca gttttcctaa atatcccgat cacgatgatg atttcaacgg gggcgcgcc 900
46 tttttctcc ctagcgctag cgccgacagt tcagttgaat gcacttttga tgtactaaat 960
47 cgaatcgagc ctggtgatga ctcaattaaa tttgaagggg ggaatttgct aattaaaaat 1020
48 gacttcaaaa acctaaattt acgtgttgca cagcttagct ttttgaacgc aaaaaaagg 1080
49 agcggtttt acagaaaaaa ttgggattct tggaaatcct ggtatcaagc ttcttcatgg 1140
50 aagaatgggc tcaattccgg tctatatggg tacggccatg atgaatctga aggaaacctc 1200
51 atttattctc catatggcat aaccttcaat gatggttcat tctctattgg cttttcatcg 1260
52 agaaagcata ttaatgacaa cacgaaggat gacaatttcg tgaagttaaa taacgcta 1320

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53 tggagttcgt tctactacgc aggtcaaatg ttttttgaca aaaacaaaag acctgtagcg 1380
54 cttgttatta cggagccttt aaatgctgct ttggcgcgag gatggtctta tatttataaa 1440
55 gatgggaaaat ggcactatga agctcaagac gattgggacg agcgtctatt taaagattcg 1500
56 accttgctcg tggatcccca cgcgccacaa ttcattaatt aa 1542
58 <210> SEQ ID NO: 2
59 <211> LENGTH: 513
60 <212> TYPE: PRT
61 <213> ORGANISM: Photobacterium damsela subsp. piscicida
63 <400> SEQUENCE: 2
64 Met Thr Ala Ile Phe Ser Leu Ala Ile Asn Ser Asn Phe Val Leu Ala
65 1 5 10 15
66 Asn Asn Asp Lys Pro Asp Ala Ser Asp Asp Lys Tyr Ala Asp Tyr Val
67 20 25 30
68 Val Arg Leu Gly Ser Glu His Pro Leu Asn His Thr Gln Ile Ile Glu
69 35 40 45
70 Leu Ser Ser Ala Val Ser Arg Ala Val Leu Leu Ser Tyr Pro Asn Ile
71 50 55 60
72 Ile Asp Arg Tyr Thr Ala Ala Ala Thr Glu Tyr Thr Val Ile Asp Ala
73 65 70 75 80
74 Leu Phe His Ser Pro Thr Phe Arg His Ile Val Ser Phe Gly Leu His
75 85 90 95
76 Asn Gln Gln Glu Asn Leu Gly His Ile Arg Tyr Thr Asn Glu Tyr Glu
77 100 105 110
78 Ile Asn Asn Asn Arg Glu Asp Glu Phe Ser Leu Val Ser Glu Val Ser
79 115 120 125
80 Tyr Asp Asp Ile Lys Ser Ser Asn Ala Gln Gln Val Pro Leu Val Ala
81 130 135 140
82 Phe Tyr Glu Ala Arg Glu Asp Arg Ala Thr Gly Thr Pro Ile Val Asn
83 145 150 155 160
84 Met Gly Val Ala Pro Ser Leu Phe Ser Gly Arg Tyr Ser Trp Trp Gln
85 165 170 175
86 Glu Ala Leu Ile His Glu Ile Val His His Val Thr Gly Ser Ser Asp
87 180 185 190
88 Thr His Glu Glu Asn Lys Gln Gly Pro Thr Glu Ile Leu Ala Gln Met
89 195 200 205
90 Val Ala Ala Glu Leu His Trp Ala Ile Pro Thr Phe Lys Gly Tyr Ser
91 210 215 220
92 Asp Pro Ala Arg Val Glu Ala Ile Gln Glu Arg Asp Phe His Ser Leu
93 225 230 235 240
94 Leu Asn Met Phe Gln Arg His Gly Ser Glu Leu Gly Phe Leu Phe Thr
95 245 250 255
96 Arg Leu Ala Thr Ile Ala Lys Gly Lys Lys Ala Ser Pro Asp Phe Gly
97 260 265 270
98 Thr Leu Thr Ser Phe Cys Ser Glu Gly Ile Ser Ser Phe Pro Lys Tyr
99 275 280 285
100 Pro Asp His Asp Asp Asp Phe Asn Gly Gly Gly Ala Phe Phe Leu Pro
101 290 295 300
102 Ser Ala Ser Ala Asp Ser Ser Val Glu Cys Thr Phe Asp Val Leu Asn
103 305 310 315 320

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104 Arg Ile Glu Pro Val Asp Asp Ser Ile Lys Phe Glu Gly Gly Asn Leu
105           325           330           335
106 Leu Ile Lys Asn Asp Phe Lys Asn Leu Asn Leu Arg Val Ala Gln Leu
107           340           345           350
108 Ser Phe Leu Asn Ala Lys Lys Gly Ser Gly Phe Tyr Arg Lys Asn Trp
109           355           360           365
110 Asp Ser Trp Lys Ser Trp Tyr Gln Ala Ser Ser Trp Lys Asn Gly Leu
111           370           375           380
112 Asn Ser Gly Leu Tyr Gly Tyr Gly His Asp Glu Ser Glu Gly Asn Leu
113 385           390           395           400
114 Ile Tyr Ser Pro Tyr Gly Ile Thr Phe Asn Asp Gly Ser Phe Ser Ile
115           405           410           415
116 Gly Phe Ser Ser Arg Lys His Ile Asn Asp Asn Thr Lys Asp Asp Asn
117           420           425           430
118 Phe Val Lys Leu Asn Asn Ala Asn Trp Ser Ser Phe Tyr Tyr Ala Gly
119           435           440           445
120 Gln Met Phe Phe Asp Lys Asn Lys Arg Pro Val Ala Leu Val Ile Thr
121           450           455           460
122 Glu Pro Leu Asn Ala Ala Phe Gly Ala Gly Trp Ser Tyr Ile Tyr Lys
123 465           470           475           480
124 Asp Gly Lys Trp His Tyr Glu Ala Gln Asp Asp Trp Asp Gln Arg Leu
125           485           490           495
126 Phe Lys Asp Ser Thr Leu Ser Leu Asp Pro His Ala Pro Gln Phe Ile
127           500           505           510
128 Asn
132 <210> SEQ ID NO: 3
133 <211> LENGTH: 18
134 <212> TYPE: PRT
135 <213> ORGANISM: Photobacterium damsela subsp. piscicida
137 <400> SEQUENCE: 3
138 Asn Asn Asp Lys Pro Asp Ala Ser Asp Asp Lys Tyr Ala Asp Tyr Val
139 1           5           10           15
140 Val Arg
144 <210> SEQ ID NO: 4
145 <211> LENGTH: 21
146 <212> TYPE: PRT
147 <213> ORGANISM: Photobacterium damsela subsp. piscicida
149 <400> SEQUENCE: 4
150 Tyr Thr Ala Ala Ala Thr Glu Tyr Thr Val Ile Asp Ala Leu Phe His
151 1           5           10           15
152 Ser Pro Thr Phe Arg
153           20
156 <210> SEQ ID NO: 5
157 <211> LENGTH: 20
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: P4 primer
164 <400> SEQUENCE: 5

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165 ggccatgatg aatctgaagg 20
167 <210> SEQ ID NO: 6
168 <211> LENGTH: 22
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: T7 primer
175 <400> SEQUENCE: 6
176 gtaatacgac tcactatagg gc 22

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/563,276

DATE: 01/13/2006

TIME: 09:52:10

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L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date